

DIALOG(R)File 352:Derwent WPI

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Thermoplastic elastomer composition having low gas-permeability composed of polyamide resin, polyamide resin/montmorillonite composite and rubber particles, useful as material for preparation of neumatic tire.

Patent Assignee: YOKOHAMA RUBBER CO LTD (YOKO)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000160024	A	20000613	JP 98332615	A	19981124	200039 B

Priority Applications (No Type Date): JP 98332615 A 19981124

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2000160024	A		11 C08L-101/00	

Abstract (Basic): JP 2000160024 A

NOVELTY - A thermoplastic elastomer composition(I) comprising (A) thermoplastic resin composition composed of (A1) nano-composite of thermoplastic resin and lamellar clay and (B) dynamically crosslinked rubber particles dispersed in (A) is claimed.

USE - (I) is useful as material for preparation of neumatic tire etc.

ADVANTAGE - (I) has good flexibility, durability and quite low gas-permeability.

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Technology Focus:

TECHNOLOGY FOCUS - POLYMERS - Laminates prepared from (I) are claimed, also. Composition of (A): (A) is composed of (A1) 30-100 wt%, preferred (A1) is nano-composite of polyamide resin and montmorillonite(claimed): e.g. (A1) is composed of nylon 6/66 and montmorillonite, (A) is composed of (A1) 30-100 wt% and polyamide

resin(e.g. nylon 11, nylon 12, nylon 6/10, nylon 6T etc). Preferred (B): butyl rubber(claimed): e.g. a composition of Exxpro(RTM) 33-98 wt% and additive(s)(e.g. antioxidant, filler, softening agent, vulcanizing agent, zinc oxide, stearic acid etc). Preferred composition of (I): (I) is composed of (A) 90-10(preferably 80-15) parts by weight and (B) 10-90(preferably 20-85) parts by weight(wherain (A)+(B)=100 parts by weight) and optional additive(s)(e.g. compatibilizer 0.5-20 parts byweight).

Title Terms: THERMOPLASTIC; ELASTOMER; COMPOSITION; LOW; GAS; PERMEABLE;

COMPOSE; POLYAMIDE; RESIN; POLYAMIDE; RESIN; MONTMORILLONTE; COMPOSITE;

RUBBER; PARTICLE; USEFUL; MATERIAL; PREPARATION

Derwent Class: P73; Q11

International Patent Class (Main): C08L-101/00

International Patent Class (Additional): B32B-025/04; B60C-001/00;

C08K-003/34; C08K-007/00; C08L-021/00; C08L-023/22; C08L-077/00

File Segment: EngPI

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Polymer Indexing (PS):

<01>

001 018; P0726 P1934 P0635 F70 D01 D11 D10 D50 E13 E00; H0317

002 018; P0668 P1934 P0635 F70 D01 D11 D10 D50 D91; H0317

003 018; P0679 P1934 P0635 F70 D01 D11 D10 D50 D92; H0317

004 018; P0704 P1934 P0635 F70 D01 D11 D10 D50 D93 E17 E00; H0317

005 018; E21 E00; R01062 G1672 G1649 D01 D11 D10 D50 D86 F09 F07; H0293
; P0635-R F70 D01; H0317

006 018; R00429 G0828 G0817 D01 D02 D12 D10 D51 D54 D56 D58 D85; R00966
G0055 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D84; H0124-R;
S9999 S1456-R; H0135 H0124; H0022 H0011; P1150 ; P0328 ; P0431

007 018; ND01; ND04; K9745-R; K9449; N9999 N6439; Q9999 Q9256-R Q9212;
B9999 B4864 B4853 B4740; B9999 B4035 B3930 B3838 B3747

008 018; A999 A157-R

009 018; R01520 D00 F20 Zn 2B Tr O- 6A; A999 A146

010 018; R16529 D00 F80 Al 3A Si 4A O- 6A; A999 A237

011 018; A999 A384

***012* 018; R00122 D01 D11 D10 D50 D93 F36 F35; A999 A793**

***013* 018; A999 A113**